

Claims

What is claimed is:

1. A prismatic battery comprising:

5 a battery case having a substantially rectangular or elliptic cross section;

a wound electrode assembly of a positive electrode, a negative electrode, and a separator interposed therebetween encased in said battery case together with electrolyte, the electrodes comprising metal substrates and respective active
10 material layers applied thereon, and projecting respectively on opposite ends of the assembly by belt-shaped current collecting portions formed of bared edge portions of the metal substrates of the electrodes, the portions being not coated with the active material layers; and

15 a positive current collector and a negative current collector respectively welded to end faces of the belt-shaped current collecting portions of the electrodes, said current collectors each comprising:

a metal plate having a substantially rectangular or
20 elliptic shape conforming to a cross section of said electrode assembly;

a pair of lengthwise notches extending from central locations to outer edges of lengthwise ends of the metal plate;

25 a pair of widthwise notches extending from central

locations to outer edges of widthwise ends of the metal plate;
and

connection pieces formed of opposing edges of said
lengthwise notches and said widthwise notches and protruding
5 orthogonally to the plane of the metal plate, wherein weld
joints are formed at intersections between said connection
pieces and said belt-shaped current collecting portions of the
electrodes.

2. The prismatic battery according to claim 1, wherein
10 said lengthwise notches are formed in a V shape and opened at
a preset angle, and said widthwise notches are formed in a
square shape.

3. The prismatic battery according to claim 2, wherein
said lengthwise notches are opened at an angle ranging from
15 30° to 45°.